

# UT5000 – Quick Start Guide

- Check hard carrying case contents include UT5000, probe, information CD, calibration block, couplant gel, wrist straps, RFID tags, USB communication cable.
- Ensure a fresh battery is fitted with correct polarity – WARNING – incorrect polarity will damage your UT5000 requiring back to factory repair not covered by warranty.
- Connect the probe lead to UT5000 and ensure connectors are fully pushed home.
- Power on UT5000 by **pressing and holding** power switch for at least **5 seconds**.
- Power off UT5000 by **pressing and holding** power switch for at least **5 seconds**.

## To calibrate UT5000 after attaching the probe:

1. Calibration must be performed every time the probe is detached/attached.
2. Ensure your probe lead is connected to your UT5000.
3. Power on your UT5000.
4. Press the setup key **[SETUP]**
5. Highlight 'transducer setup' from the list using arrow keys, then press select key **[SEL]**
6. Highlight 'probe zero/cal double' from the list using arrow keys, then press select key **[SEL]**
7. Apply couplant gel to calibration step wedge on lowest and highest steps.
8. Measure first step and then enter known step thickness.
9. Repeat the measurement process for the opposite end of the calibration step wedge.
10. Once this process is complete, your device has been two point calibrated.

## To take a simple thickness measurement:

1. Press velocity key **[VEL]**
2. Using arrow keys select required material velocity from the pre-loaded list **[SEL]**
3. Press Frequency key **[FREQ]**
4. Highlight 'single shot' from list using arrow keys, then press select key **[SEL]**.
5. Apply couplant gel to material surface.
6. Place probe against material surface.
7. Press measure **[MEAS]**
8. To save measurement for later use press save key **[SAVE]**

### To edit an RFID tag:

**NOTE: When an RFID tag is scanned for first time it will automatically prompt you to set the following:**

- A. Rename the RFID Tag.
- B. Assign a material velocity to the RFID Tag.
- C. Set minimum/maximum alarms for the RFID Tag.
- D. Assign either pulse echo or echo-echo measuring type.
- E. Assign up to 9 reference points.

### Otherwise:

1. Place UT5000 within range of RFID Tag.
2. Press the RFID scan key **[SCAN]**
3. Press setup key **[SETUP]**
4. Highlight 'tag setup' from the list using arrow keys, then press select key **[SEL]**
5. Highlight 'edit tag alias' from the list using arrow keys, then press select key **[SEL]**
6. Highlight 'del' from the list using arrow keys, then press select key **[SEL]** until previous alias is removed.
1. Enter required tag alias using arrow keys, pressing select key **[SEL]** after each digit.
2. When required name is entered scroll to 'accept' and press select key **[SEL]**

### **To manually enter material velocity data:**

1. Press the setup key **[SETUP]**
2. Highlight 'material velocity' from the list using arrow keys, then press select key **[SEL]**
3. Highlight 'material user defined' from the list using arrow keys, then press select key **[SEL]**
4. Highlight 'UD material text' from the list using arrow keys, then press select key **[SEL]**
5. Enter required material name using arrow keys, pressing select key **[SEL]** after each digit.
6. When required name is entered scroll to 'accept' and press select key **[SEL]**
7. Highlight 'UD material velocity' from the list using arrow keys, then press select key **[SEL]**
8. Enter required material velocity using arrow keys, pressing select key **[SEL]** after each digit.
9. When required velocity is entered scroll to 'accept' and press select key **[SEL]**
10. Press escape key **[ESC]** to return to front screen.

**For more detailed information on using your UT5000 and other features please refer to the operating manual on the CD included.**